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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
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April 10, 1978

Mr. Thomas E. Redd
P.O. Box 651
Blanding, UT. 84511

Re: Whirlwind Mine
San Juan County, Utah
ACT/037/032

Dear Mr. Redd:

Thank you for showing us your proposed mining operation on March 2nd. Since our meeting we have learned that the surface of the section on which you have obtained a State mineral lease is owned by the Federal Government as the result of a land exchange. That portion of the section below the high water elevation of 3,720 feet is owned jointly by the National Park Service and the Bureau of Reclamation, with the latter agency having sole ownership of the surface above that elevation, as part of the Glen Canyon National Recreation Area. The State of Utah currently owns the mineral rights. However, it is our understanding that they will be conveyed to the Federal Government at some future date, probably when the present lease has expired.

As a matter of courtesy we have notified the Federal agencies involved of your proposed operation. As far as we know they have no reclamation requirements and will not require that you post a reclamation bond. If this is the case, the State of Utah will require that you commit to reclaiming the disturbed surface area as set forth in the terms of your lease agreement, and post a reclamation bond with the Division of State Lands prior to commencing your mining operation.

We would like to make a few suggestions, if we may, to improve your reclamation plan. First, we would suggest that you commit to removing or burying all extraneous junk, trash, and debris, plugging all drill holes, back filling the decline and portal, and regrading the waste dump to a contour consistent with the surrounding area. Second, we would like to improve your proposed seed mixture for revegetating the disturbed surface area by suggesting the following:

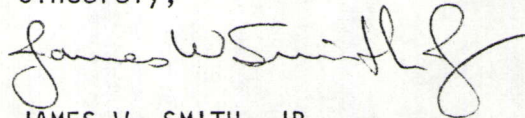
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<u>SPECIES</u>	<u>RATE (lbs./acre)</u>
Fairway Crested Wheatgrass	4
Indian Ricegrass	2
Russian Wildrye	2
Yellow Sweetclover	2
Shadscale	2

We have estimated a reclamation bond (a copy is enclosed) for the Division of State Lands in the amount of \$1,212.46, which takes into account a 5% inflation factor for the proposed life of the mine. If you agree with the bond estimate and the suggested amendments to your mining and reclamation plan, please let us know. When your reclamation plan is mutually acceptable and you have filed the reclamation bond with the Division of State Lands, as far as the State is concerned, you are free to commence mining.

If we can be of further assistance or if you have any questions, please feel free to contact us.

Sincerely,



JAMES W. SMITH, JR.
RECLAMATION SOILS SPECIALIST

/tlb

Enclosures

DIVISION OF OIL, GAS, AND MINING
BOND ESTIMATE

OPERATOR: THOMAS E. REDD
MINE NAME: WHIRLWIND - ACT/037/032
LOCATION: Sec. 2, T. 41 S., R. 13 E.
COUNTY: San Juan County, Utah
DATE: April 10, 1978

	Operation	Amount	Rate	Cost	
A.	CLEAN-UP				
	1. Removal of structures & equipment.	16 man hours	\$ 5/hour	\$ 80.00	
	2. Removal of trash & debris.				
	3. Leveling of ancillary facilities pads and access roads.				
B.	REGRADING & RECONTOURING				
	1. Earthwork including haulage and grading of spoils, waste and overburden.	2 hours cat time	50/hour	100.00	
	2. Recontouring of highwalls and excavations.				
	3. Spreading of soil or surficial materials.				
C.	STABILIZATION				
	1. Soil preparation, scarification, fertilization, etc.	scarifying 1.5 acre	25/acre	37.50	
	2. Seeding or planting.	seeding 1.5 ac	100/acre	150.00	
	3. Construction of terraces, waterbars, etc.				
D.	LABOR				
	1. Supervision.	8 man hours	10/hour	80.00	
	2. Labor exclusive of bulldozer time.				
E.	SAFETY				
	1. Erection of fences, portal coverings, etc. Earthfill decline & portal	1 portal	500/each	500.00	
	2. Removal or neutralization of explosive or hazardous materials.				
F.	MONITORING				
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	1 inspection	50/each	50.00	
G.	OTHER			\$ 997.50	SUB-TOTAL
	1. 5% inflation - 4 years 0.2155			214.96	
				\$1212.46	TOTAL